Marshall LCD Monitors

A/V · CCTV · Industrial · Machine Vision

Lynx

ATSC

Marshall

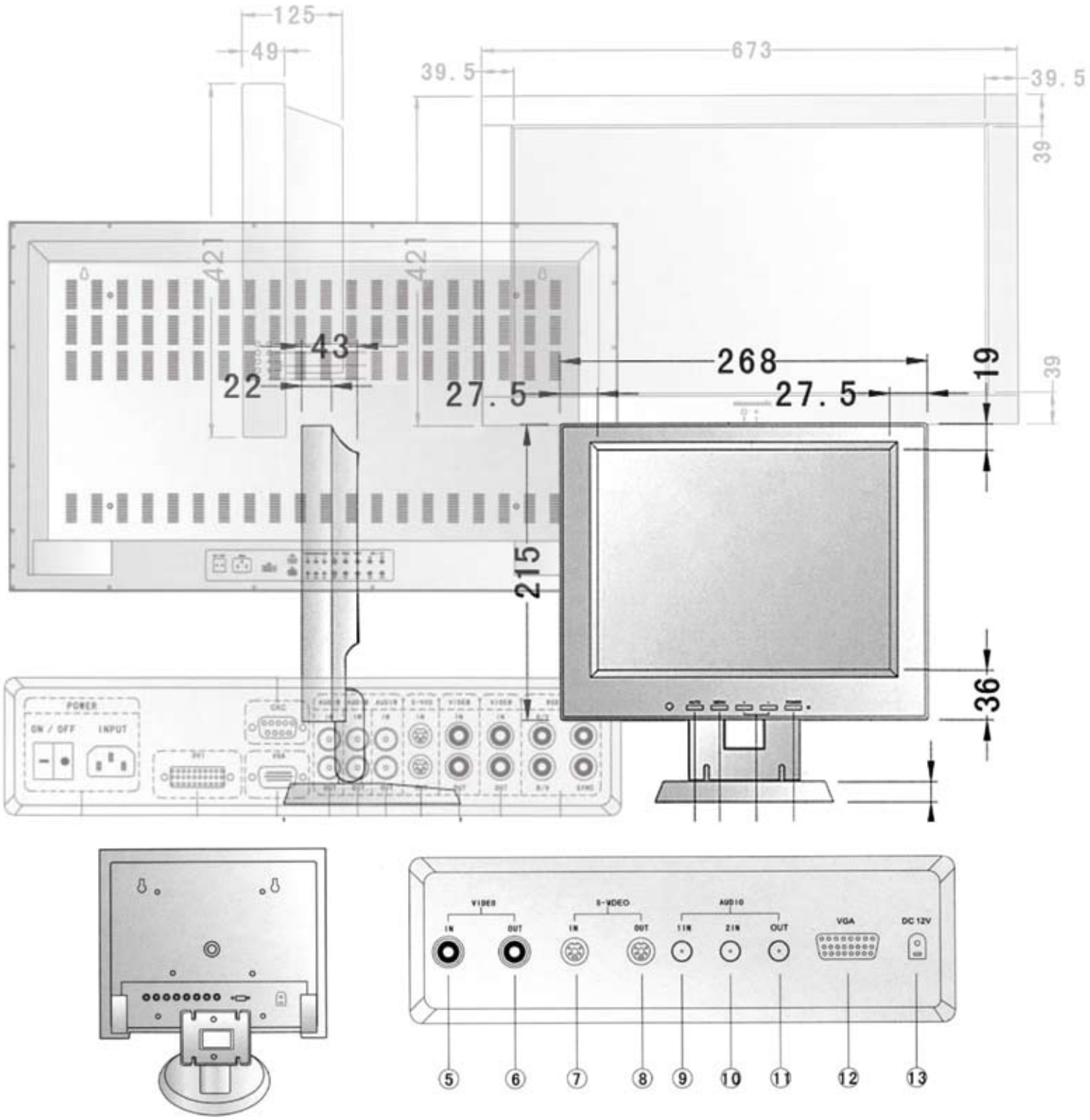
Industrial Video/Security Div.

Welcome to Marshall's Industrial Video & Security Division. The following pages include detailed information on our Lynx Universal Monitor Series and Portable ATSC Monitors.

Ranging in screen sizes from 7 to 26 inches, Marshall monitors offer an economic price point and high performance features for security and safety surveillance, CCTV, or any application requiring a high quality, professional-grade LCD monitor. Our new ATSC 16:9 field monitors comply with the Federal Communications Commission (FCC) mandate requiring the conversion of analog broadcast signals to digital. Not only do these monitors provide portable television, but they are perfect for mobile ENG / OB Vans requiring off-air monitoring.

User-friendly OSD, low profile design, and multiple input and output options make our Lynx monitors an ideal fit for commercial and industrial use. Dynamic noise reduction removes unwanted artifacts in video material, and 2D & 3D comb filter technology minimizes ghosting in motion video. Ideal for high traffic public areas, Marshall monitors offer high resolution capability, as well as impressive contrast ratios and brightness levels so you'll experience crystal-clear images every time.

Marshall monitors are designed, engineered and manufactured for quality, reliability and affordability. We're confident you'll find a monitor that's right for you.


125
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673
39.5
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421
43
22
268
27.5
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215
36
POWER
ON / OFF
INPUT
VIDEO
IN
OUT
S-VIDEO
IN
OUT
AUDIO
1IN
2IN
OUT
VGA
DC 12V
5
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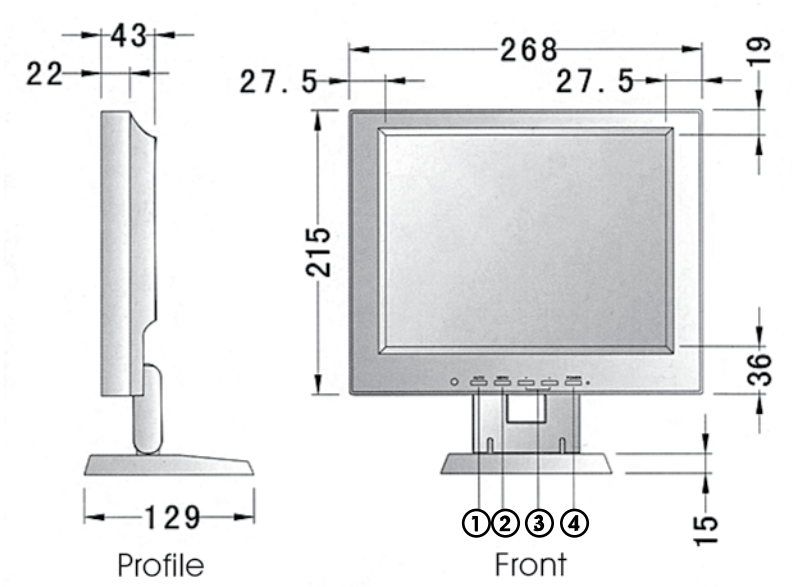
Marshall Universal Monitor Series



Features

- 10” 4:3 LCD Monitor
- Brightness: 250cd/m²
- Contrast: 450:1
- Inputs: Composite, S-Video, VGA
- 2D Comb Filter
- Dynamic Noise Reduction

Summary

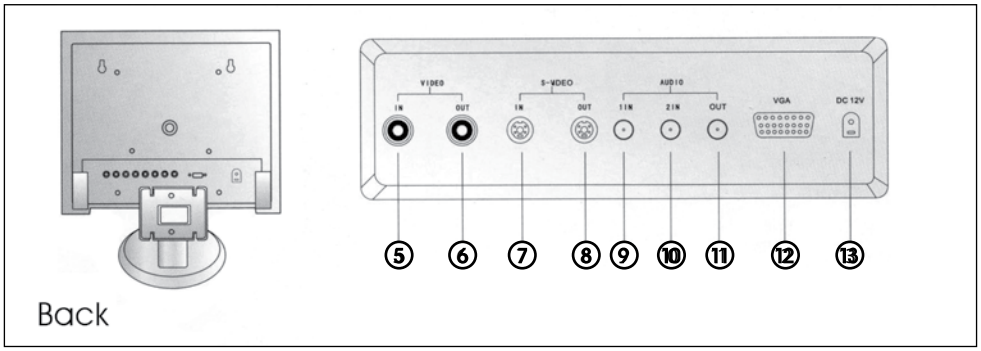
Ideal for mobile applications and tight spaces, Marshall’s Lynx 10” LCD monitor offers 800 X 600 pixel resolution with digital image processing, a digital comb filter and clock-frequency auto correction for a crisp, clear picture. With a slim, portable design, the M-Lynx-10 is an excellent standard definition monitor for audio/visual, security, and industrial applications.

Front Panel Controls

1. **Power**
2. **OSD On/Off**
3. **a. OSD off: adjust volume (volume range: 0-100)**

   b. OSD on: select/forward/ backward
   c. Changes current value or function of selected item
4. **a. Input select: video, S-video and VGA channel**

   b. OSD on: confirm selected item



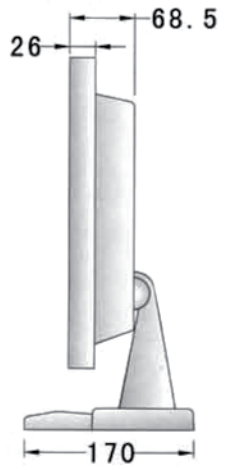
Rear Panel Control/Inputs

5. Video IN
6. Video OUT
7. S-Video IN
8. S-Video OUT
9. Audio-1 IN
10. Audio-2 IN
11. Audio OUT
12. VGA-IN
13. VDC Power input

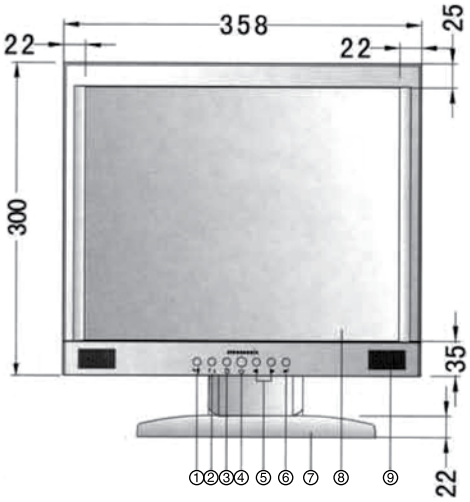
Technical Parameters

Model	M-Lynx-10	
System	PAL, NTSC	
VGA	Display Panel	LCD
	Resolution	800 X 600
	Brightness	250CD/m^2
	Contrast	450:1
	Response Time	16ms
	Viewing Angle	150°/140°
Video Input/Output	Composite Video Input	1 channel BNC input 1.0Vp-p 75Ω, 1 channel output
	S-Video	1 channel input (Y/C), 1 channel looping output
	VGA	1 channel input
Audio	2 channel in, 1 channel out	
Menu	OSD (On Screen Display)	
Dimension	268 X 215 X 43 (mm)	
Weight	2.5kg	
Power Source	Voltage	AC 100 ~230V 50 ~ 60Hz
	Power	Max: 10W
Operating Environment	Temperature: 0 ~ 40° C; Operating Humidity: 10% ~ 85%	

Marshall Universal Monitor Series



Profile



Front

Features

- 15” 4:3 LCD Monitor
- Brightness: 350cd/m^2
- Contrast: 450:1
- Inputs: Composite, S-Video, YPbPr, VGA, DVI
- 3D Comb Filter
- Dynamic Noise Reduction

Summary

The M-Lynx-15 delivers a stunning 1024 X 768 resolution picture in a 15” screen size. Using advanced video technologies such as 3D dynamic digital compensation, 3D comb filter, and bandwidth auto compensation, this sturdy workhorse is well suited for a variety of audio/visual, security and industrial applications. Additional features include auto-clock frequency phase correction, built-in speakers and a user-friendly OSD that makes set-up and operation quick and easy.

Front Panel Controls

1. Remote IR

2. Input select: AV1, AV2, S-Video, YPbPr, PC, and DVI

3. OSD On/Off

4. Power

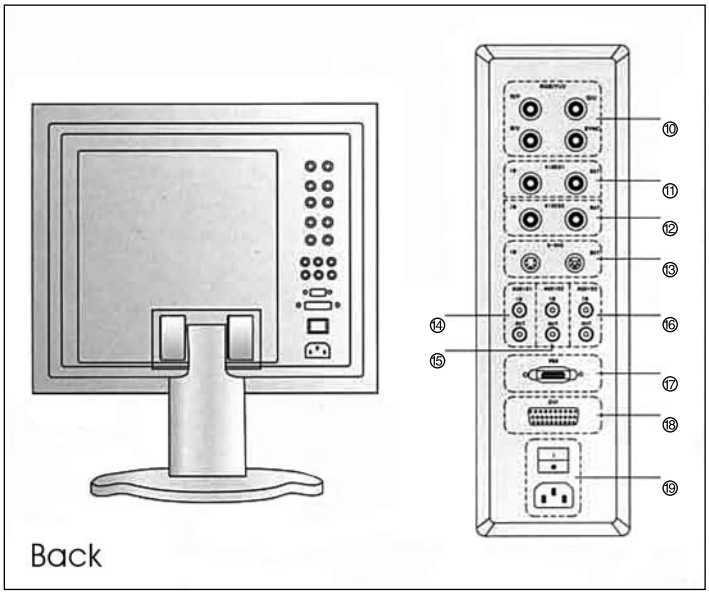
5. a. OSD off: adjust volume (range 1-100)
b. OSD on: select forward/backward
c. Change current value or function of item selected

6. Select current item

7. Monitor bracket

8. Display panel

9. Speakers



Rear Panel Control/Inputs

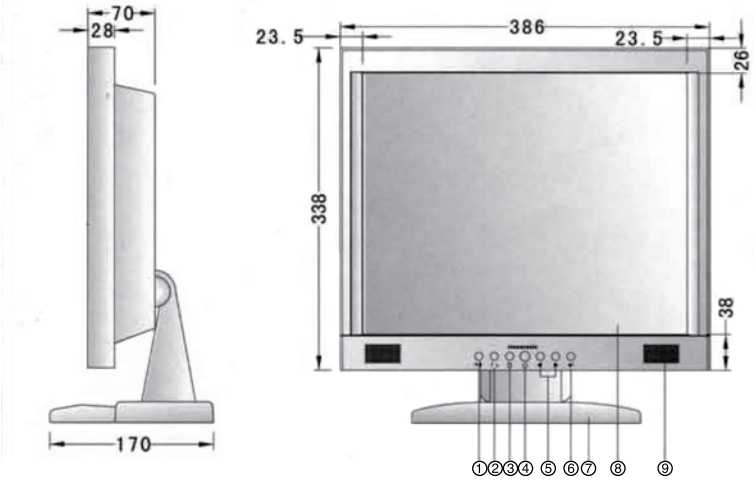
10. YUV: YPbPr IN
11. VIDEO1: VIDEO IN/OUT
12. VIDEO 2: VIDEO 2 IN/OUT
13. SVHS: S-Video IN/OUT
14. AUDIO1: VIDEO 1, S-VIDEO AUDIO IN/OUT
15. AUDIO2: VIDEO2, YPbPr AUDIO IN/OUT
16. AUDIO3: VGA, DVI AUDIO IN/OUT
17. VGA: VGA IN
18. DVI: DVI IN
19. Power Switch

Note: Corresponding interface of YPbPr input: Y to R/Y, Pb to G/U, Pr to B/V

Technical Parameters

Model	M-Lynx-15	
System	PAL, NTSC	
VGA	Display Panel	LCD
	Resolution	1024 X 768
	Brightness	350CD/m²
	Contrast	450:1
	Viewing Angle	170°/150°
Video Input/Output	Composite Video Input	2 channels BNC input 1.0V p-p, 75Ω, 2 ch output
	S-Video	1 channel input (Y/C), 1 channel looping output
	YPbPr	1 channel input
	DVI	1 channel input
	VGA	1 channel input
Audio	3 channel input, 2W, 3 channel output	
Menu	OSD	
Dimension	358 X300 X 68.5 (mm)	
Weight	4.5kg	
Power Source	Voltage	AC 100~230v 50~60Hz
	Power	Max 32W
Operating Environment	Temperature: 0° C ~ 40° C; Operating Humidity:10% ~ 85%	

Marshall Universal Monitor Series



Profile Front

Features

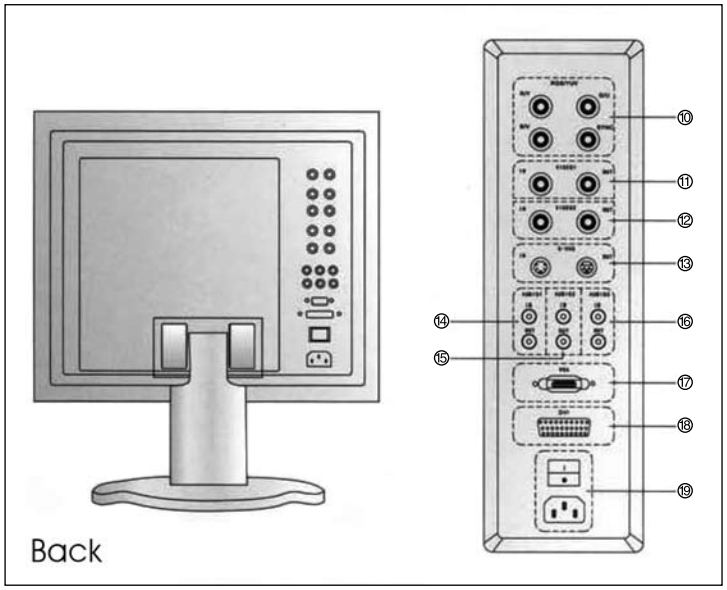
- 17" 4:3 LCD Monitor
- Brightness: 300cd/m^2
- Contrast: 1000:1
- Inputs: Composite, S-Video, YPbPr, VGA, DVI
- 3D Comb Filter
- Dynamic Noise Reduction

Summary

With 1280 X 1024 resolution, the M-Lynx-17 universal monitor is an excellent choice for audio/visual, security and industrial applications. Incorporating advanced video technologies such as 3D dynamic digital compensation, 3D comb filter, and bandwidth auto compensation, this 17" LCD offers clear and vibrant images in a thin, lightweight package. Additional features include auto-clock frequency phase correction, built-in speakers and a user-friendly OSD that makes set-up and operation quick and easy.

Front Panel Controls

1. Remote IR
2. Input select: AV1, AV2, S-Video, YPbPr, PC, and DVI
3. OSD On/Off
4. Power
5. a. OSD off: adjust volume (range 1-100)
   b. OSD on: select forward/ backward
   c. Change current value or function of item selected
6. Select current item
7. Monitor bracket
8. Display panel
9. Speakers



Rear Panel Control/Inputs

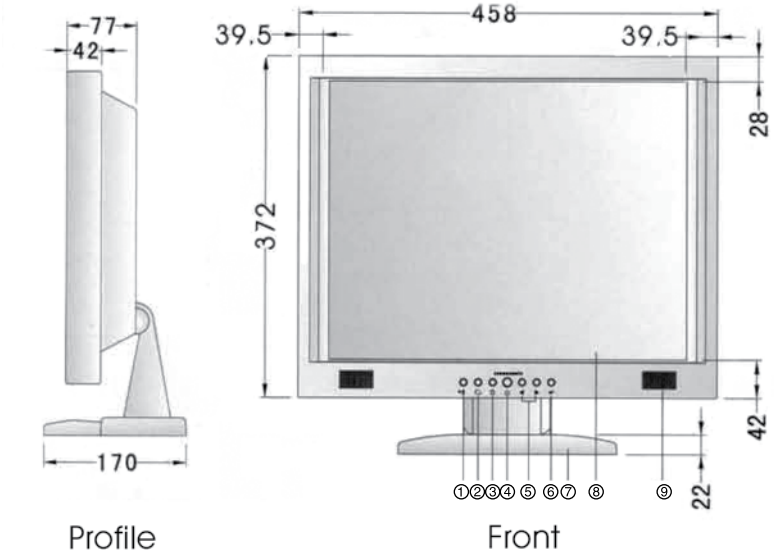
10. YUV: YPbPr IN
11. VIDEO1: VIDEO IN/OUT
12. VIDEO 2: VIDEO 2 IN/OUT
13. SVHS: S-Video IN/OUT
14. AUDIO1: VIDEO 1, S-VIDEO AUDIO IN/OUT
15. AUDIO2: VIDEO2, YPbPr AUDIO IN/OUT
16. AUDIO3: VGA, DVI AUDIO IN/OUT
17. VGA: VGA IN
18. DVI: DVI IN
19. Power Switch

Note: Corresponding interface of YPbPr input: Y to R/Y, Pb to G/U, Pr to B/V

Technical Parameters

Model	M-Lynx-17	
System	PAL, NTSC	
VGA	Display Panel	LCD
	Resolution	1280 X 1024
	Brightness	300cd/m^2
	Contrast	1000:1
	Viewing Angle	170°/160°
Video Input/Output	Composite Video Input	2 channel BNC input 1.0v p-p, 75Ω, 2 channel output
	S-Video	1 channel input (Y/C), 1 channel looping input
	YPbPr	1 channel input
	DVI	1 channel input
	VGA	1 channel input
Audio	3 channel input, 2W, 3 channel output	
Menu	OSD	
Dimension	386 X 338 X70 (mm)	
Weight	5.0kg	
Power Source	Voltage	AC 100~230V 50~60Hz
	Power	Max 32W
Operating Environment	Operating Temperature: 0° C~40° C: Operating Humidity: 10% ~ 85%	

Marshall Universal Monitor Series



Features

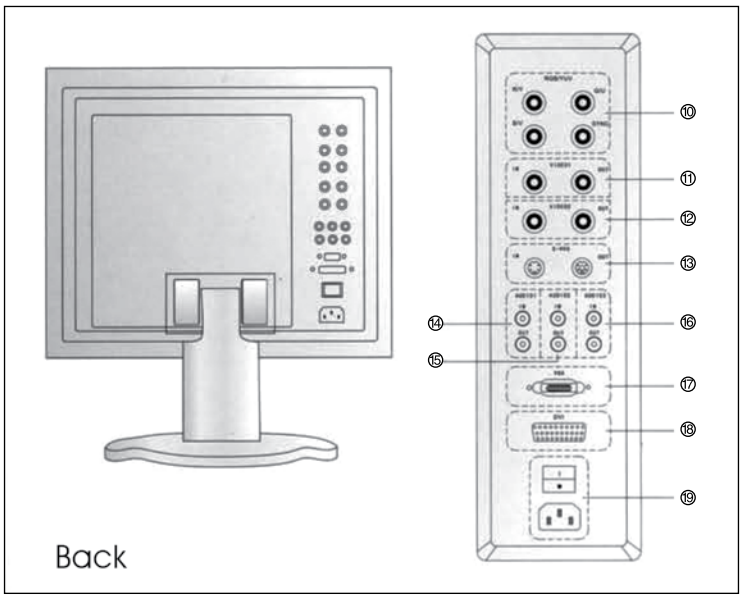
- 19" 4:3 LCD Monitor
- Brightness: 450cd/m^2
- Contrast: 1000:1
- Inputs: Composite, S-Video, YPbPr, VGA, DVI
- 3D Comb Filter
- Dynamic Noise Reduction

Summary

The M-Lynx-19 offers a stunning 1280 X 1024 resolution picture, making it the perfect choice for audio/visual, security and industrial applications. This universal monitor delivers a crystal clear high definition picture and includes advanced video technologies such as 3D dynamic digital compensation, RGB digital phase lock, and 3D comb filter. Additional features include auto-clock frequency phase correction, built-in speakers and a user-friendly OSD.

Front Panel Controls

1. Remote IR
2. Input select: AV1, AV2, S-Video, YPbPr, PC, and DVI
3. OSD On/Off
4. Power
5. a. OSD off: adjust volume (range 1-100)
   b. OSD on: select forward/ backwards
   c. Change current value or function of item selected
6. Select current item
7. Monitor bracket
8. Display panel
9. Speakers



Rear Panel Control/Inputs

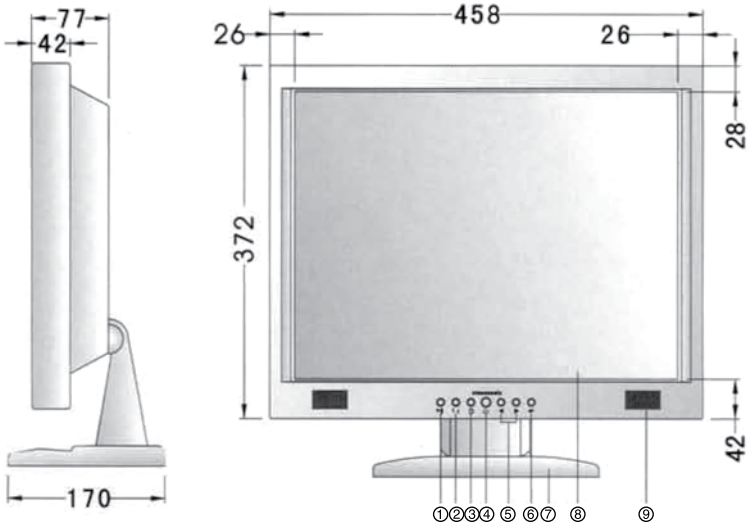
10. YUV: YPbPr IN
11. VIDEO1: VIDEO IN/OUT
12. VIDEO 2: VIDEO 2 IN/OUT
13. SVHS: S-Video IN/OUT
14. AUDIO1: VIDEO 1, S-VIDEO AUDIO IN/OUT
15. AUDIO2: VIDEO2, YPbPr AUDIO IN/OUT
16. AUDIO3: VGA, DVI AUDIO IN/OUT
17. VGA: VGA IN
18. DVI: DVI IN
19. Power Switch

Note: Corresponding interface of YPbPr input: Y to R/Y, Pb to G/U, Pr to B/V

Technical Parameters

Model	M-Lynx-19	
System	PAL, NTSC	
VGA	Display Panel	LCD
	Resolution	1280 X 1024
	Brightness	450cd/m^2
	Contrast	1000:1
	Viewing Angle	170°/160°
Video Input/Output	Composite Video Input	2 channel BNC input 1.0v p-p, 75Ω, 2 channel output
	S-Video	1 channel input (Y/C), 1 channel looping input
	YPbPr	1 channel input
	DVI	1 channel input
	VGA	1 channel input
Audio	3 channel input, 2W, 3 channel output	
Menu	OSD	
Dimension	458 X 372 X 77 (mm)	
Weight	6.7kg	
Power Source	Voltage	AC 100~230V 50~60Hz
	Power	Max 40W
Operating Environment	Operating Temperature: 0° C~40° C; Operating Humidity: 10% ~ 85%	

Marshall Universal Monitor Series



Profile Front

Features

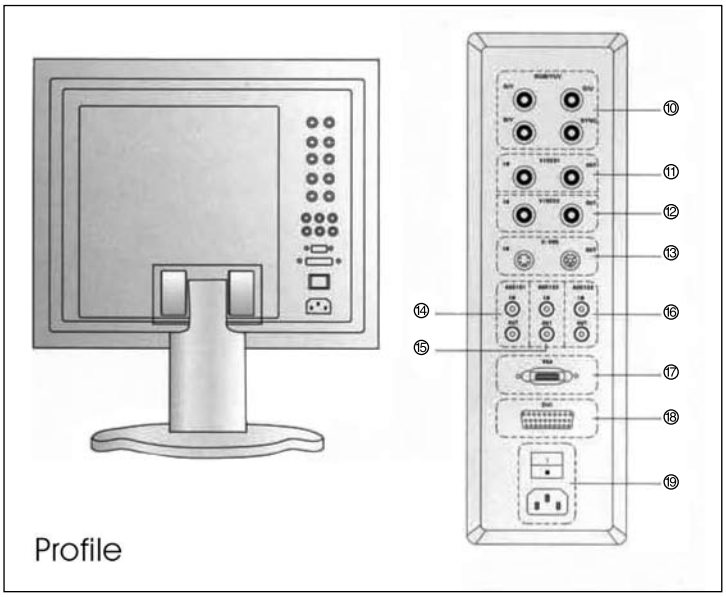
- 20” 4:3 LCD Monitor
- Brightness: 450cd/m^2
- Contrast: 1000:1
- Inputs: Composite, S-Video, YPbPr, VGA, DVI
- 3D Comb Filter
- Dynamic Noise Reduction

Summary

The M-Lynx 20” offers a beautiful 1600 X 1200 resolution picture, making it the perfect choice as a public view security monitor, as well as for CCTV and industrial applications. This universal monitor includes advanced video technologies such as 3D dynamic digital compensation, 3D comb filter, RGB digital phase lock, and 3D comb filter. The M-Lynx-20 also includes built-in speakers, user-friendly OSD, and a wide selection of inputs for greater flexibility.

Front Panel Controls

1. Remote IR
2. Input select: AV1, AV2, S-Video, YPbPr, PC, and DVI
3. OSD On/Off
4. Power
5. a. OSD off: adjust volume (range 1-100)
   b. OSD on: select forward/ backwards
   c. Change current value or function of item selected
6. Select current item
7. Monitor bracket
8. Display panel
9. Speakers



Rear Panel Control/Inputs

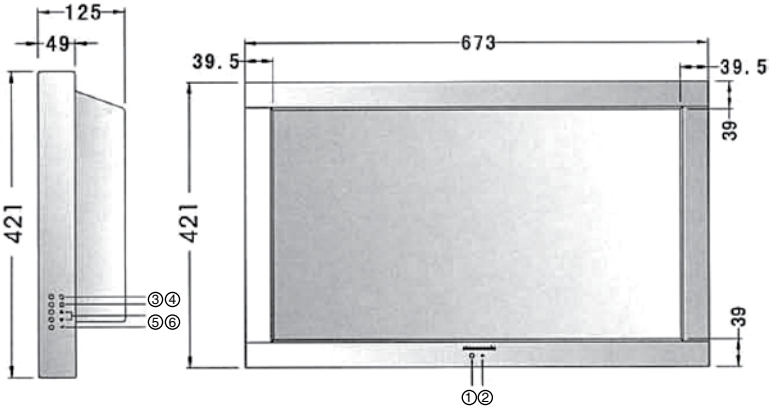
10. YUV: YPbPr IN
11. VIDEO1: VIDEO IN/OUT
12. VIDEO 2: VIDEO 2 IN/OUT
13. SVHS: S-Video IN/OUT
14. AUDIO1: VIDEO 1, S-VIDEO AUDIO IN/OUT
15. AUDIO2: VIDEO2, YPbPr AUDIO IN/OUT
16. AUDIO3: VGA, DVI AUDIO IN/OUT
17. VGA: VGA IN
18. DVI: DVI IN
19. Power Switch

Note: Corresponding interface of YPbPr input: Y to R/Y, Pb to G/U, Pr to B/V

Technical Parameters

Model	M-Lynx-20	
System	PAL, NTSC	
VGA	Display Panel	LCD
	Resolution	1600 X 1200
	Brightness	450cd/m^2
	Contrast	1000:1
	Viewing Angle	170°/160°
Video Input/Output	Composite Video Input	2 channel BNC input 1.0v p-p, 75Ω, 2 channel output
	S-Video	1 channel input (Y/C), 1 channel looping input
	YPbPr	1 channel input
	DVI	1 channel input
	VGA	1 channel input
Audio	3 channel input, 2W, 3 channel output	
Menu	OSD	
Dimension	458 X 372 X 77 (mm)	
Weight	6.7kg	
Power Source	Voltage	AC 100~230V 50~60Hz
	Power	Max 50W
Operating Environment	Operating Temperature: 0° C~40° C; Operating Humidity: 10% ~ 85%	

Marshall Universal Monitor Series



Profile Front

Features

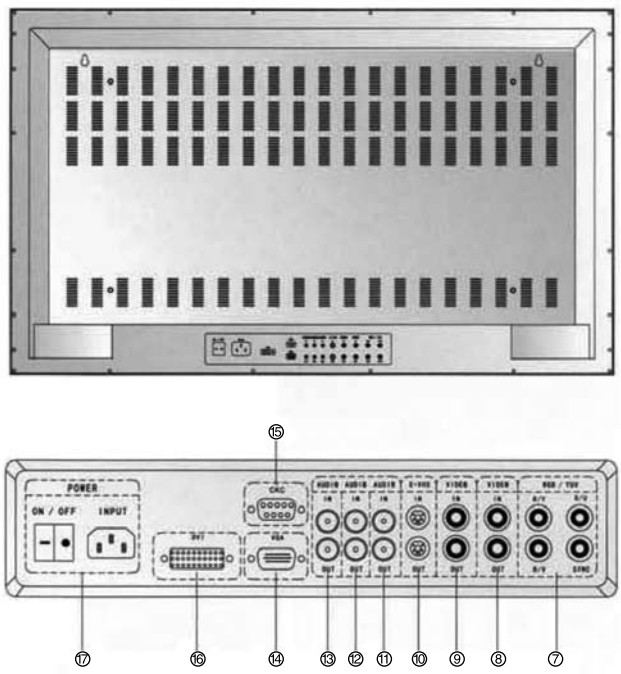
- 26” 16:9 LCD Monitor
- Brightness: 500cd/m^2
- Contrast: 1000:1
- Inputs: Composite, S-Video, YPbPr, VGA, DVI
- 3D Comb Filter
- Dynamic Noise Reduction

Summary

The M-Lynx 26” offers an eye-popping 1920 X 1080 resolution picture in a 16:9 format. Features like 3D comb filter technology help minimize ghosting in motion video, and the M-Lynx-26 includes inputs for composite video, S-Video, YPbPr, VGA, and DVI. Advanced video technologies ensure a crisp, clear picture quality, making the M-Lynx-26 ideal for audio/visual, security, as well as a variety of industrial applications.

Front Panel Controls

1. Remote IR
2. Blue: on; Red: standby
3. Input select: AV1, AV2, S-Video, YPbPr, VGA and DVI
4. OSD On/Off
5. a. OSD off: adjust volume (range 1-100)
   b. OSD on: select forward/ backwards
   c. Change current value or function of item selected
6. Select current item



Back

Rear Panel Control/Inputs

7. RGB/YUV: YPbPr In

8. Video 1: VIDEO 1 IN/OUT

9. Video 2: VIDEO 2 IN/OUT

10. SVHS: S-Video IN/OUT

11. AUDIO1: VIDEO 1, S-VIDEO AUDIO IN/OUT

12. AUDIO2: VIDEO2, YPbPr AUDIO IN/OUT

13. AUDIO3: VGA, DVI AUDIO IN/OUT

14. VGA: VGA IN

15. Central Keyboard Control (optional)

16. DVI: DVI IN

17. Power Switch

Technical Parameters

Model	M-Lynx-26	
System	PAL, NTSC	Auto Detect
VGA	Display Panel	LCD
	Resolution	1920 X 1080
	Brightness	500cd/m^2
	Contrast	1000:1
	Viewing Angle	176°/176°
Video Input/Output	Composite Video Input	2 channel BNC input 1.0v p-p, 75Ω, 2 channel output
	S-Video	1 channel input
	YPbPr	1 channel input
	DVI	1 channel input
	VGA	1 channel input
Audio	3 channel input, 2W	3 channel output
Menu	OSD (On Screen Display)	
Dimension	673 X 421 X 125 (mm)	
Weight	12kg	
Power Source	Voltage	AC 100~230V 50~60Hz
	Power	Max 110W
Operating Environment	Operating Temperature: 0° C~40° C; Operating Humidity: 10% ~ 85%	

Marshall Portable ATSC Monitors

V-LCD70-ATSC

V-LCD102-ATSC

V-LCD110-ATSC

- A perfect choice for mobile field monitoring
- Bright, high resolution picture performance
- Two-channel stereo speakers provide precise sound
- Ideal for mobile ENG/OB Vans, surveillance, and security
- No digital-to-analog converter box required

Summary

The digital transition is here and Marshall has you covered. Marshall is pleased to offer three new portable LCD field monitors with built-in digital ATSC tuners. These new 16:9 monitors are available in 7", 10.2", and 11" sizes and comply with the Federal Communications Commission (FCC) mandate requiring the conversion of analog broadcast signals to digital. No digital-to-analog converter box required. Not only do these monitors provide portable television, but they are perfect for mobile ENG / OB Vans, surveillance, and security. These units can be integrated into fixed solutions and fed with a CATV or CCTV signal. Each unit also supports QAM (or ClearQAM) tuning, which allows viewing of non-encrypted digital channels.

Marshall's 7", 10.2", and 11" ATSC monitors offer a variety of features combined with bright, high resolution picture performance. Standard video adjustments include contrast, brightness, color, sharpness, and tint, along with four picture preset modes (Personal, Standard, Dynamic, and Soft). There are also three preset color modes (Normal, Warm, and Cool), along with three different Format modes (Auto, 4:3, and Wide). Four audio preset modes (Personal, Standard, Movie, and Music) provide clean and precise sound from two-channel stereo speakers. Other features include Closed Captioning, Clock, Auto Channel Scan, Electronic Program Guide (EPG), and the ability to edit and label individual Programs and Channels.

Each unit includes an adjustable stand and can be powered with included AC/DC power adapter or auto adapter. Low power consumption combined with great off-axis viewing makes these durable monitors the perfect choice for mobile field monitoring.

V-LCD70-ATSC

7" ATSC / QAM / NTSC LCD TV

Resolution:	480 x 234
Aspect ratio:	16:9
Contrast:	300:1
Brightness:	200cd/m^2
Video input:	1Vp-p 75 ohm (two route)
Audio input:	2Vp-p two channels (left and right)
Audio output:	Built-in loudspeaker (0.5W x 2)
Input Resistance:	75 Ohm
Input bit rate:	Max. 19.4Mbit/s
Audio decoding:	AC-3
Sound output:	Stereo/two-channel (left and right)
QAM Modulation:	64-QAM 256-QAM 8-VSB
Frequencies:	CATV (STD, IRC, HRC) AIR: CH2-69 CATV: CH2-125
OSD menu language:	English, French, Spanish
Power supply:	AC 110-240V DC 12V 10W
Accessories:	Remote control, AC/DC adapter, support bracket, A/V cable and manual

V-LCD102-ATSC

10.2" ATSC / QAM / NTSC LCD TV

Resolution:	800 x 480
Aspect ratio:	16:9
Contrast:	400:1
Brightness:	180cd/m^2
Video input:	1Vp-p 75 ohm (two route)
Audio input:	2Vp-p two channels (left and right)
Audio output:	Built-in loudspeaker (0.5W x 2)
Input Resistance:	75 Ohm
Input bit rate:	Max. 19.4Mbit/s
Audio decoding:	AC-3
Sound output:	Stereo/two-channel (left and right)
QAM Modulation:	64-QAM 256-QAM 8-VSB
Frequencies:	CATV (STD, IRC, HRC) AIR: CH2-69 CATV: CH2-125
OSD menu language:	English, French, Spanish
Power supply:	AC 110-240V DC 12V 10W
Accessories:	Remote control, AC/DC adapter, 75 ohm antenna conversion cable (screw connector), U-shaped, support bracket, AV cable and manual

V-LCD110-ATSC

11" ATSC / QAM / NTSC LCD TV

Resolution:	800 x 480
Aspect ratio:	16:9
Contrast:	500:1
Brightness:	200cd/m^2
Video input:	1Vp-p 75 ohm (two route)
Audio input:	2Vp-p two channels (left and right)
Audio output:	Built-in loudspeaker (0.5W x 2)
Input Resistance:	75 Ohm
Input bit rate:	Max. 19.4Mbit/s
Audio decoding:	AC-3
Sound output:	Stereo/two-channel (left and right)
QAM Modulation:	64-QAM 256-QAM 8-VSB
Frequencies:	CATV (STD, IRC, HRC) AIR: CH2-69 CATV: CH2-125
OSD menu language:	English, French, Spanish
Power supply:	AC 110-240V DC 12V 10W
Accessories:	Remote control, AC/DC adapter, 75 ohm antenna conversion cable (screw connector), U-shaped, support bracket, AV cable and manual

Notes

Notes

Lynx /ATSC

Industrial Video/Security Division

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